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1 [Vision: Accommodating color blind computer users](#)



Luke Jefferson, Richard Harvey

 October 2006 **Proceedings of the 8th international ACM SIGACCESS conference on Computers and accessibility Assets '06**

Publisher: ACM Press

 Full text available: [pdf\(399.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Important visual information often disappears when color documents are viewed by color blind people. The algorithm introduced here maps colors using the World Wide Web Consortium evaluation criteria so that detail is preserved for color blind viewers, especially dichromats. The algorithm has four parts: 1) select a representative set of colors from the source document; 2) compute target color distances using color and brightness differences; 3) solve an optimization step that preserves the target ...

Keywords: accessibility, assistive technology, color vision deficiency

2 [Session 2 \(monday, june 5th--2:00-3:00 pm\): How to play a coloring game against a color-blind adversary](#)



Ke Chen

 June 2006 **Proceedings of the twenty-second annual symposium on Computational geometry SCG '06**

Publisher: ACM Press

 Full text available: [pdf\(204.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study the problem of conflict-free (CF) coloring of a set of points in the plane, in an online fashion, with respect to halfplanes, nearly-equal axis-parallel rectangles, and congruent disks. As a warm-up exercise, the online CF coloring of points on the line with respect to intervals is also considered. We present randomized algorithms in the oblivious adversary model, where the adversary does not see the colors used. For the problems considered, the algorithms always produce valid CF colorings ...

Keywords: conflict-free coloring, online algorithm

3 [How to design an aesthetically-pleasing, ADA-compliant website](#)

Catherine E. Weeks



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IET JNL IET Journal or Magazine

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 Volume 2, 3-6 June 1996 Page(s):718 - 723 vol.2
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